

Work Order ID 129829

129829

Today

February-23-15 10:25:22 AM

Page 1

Item ID: D139-799-015

Accept

N900040100

Setup Start

NS1

Revision ID:

Stop

NS2

Item Name: Engine Wash

Start Date: 2/18/15 Start Qty: 1.00

1

Cust Item ID:

Required Date: 3/01/15 Req'd Qty: 1.00

1

Customer:

Reference:

Approvals:

Process Plan: MLS

Date: 15-02-25

Tooling:

Date:

Run Start

NR1

QC:

Date:

SPC (Y/N):

Date:

Stop

NR2

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
IIN-D139-799	I								
100	Document Control	0.00							
100									
DC	Memo	0.00							
Doc.Control -USB or Paperwork	Photocopy bluefile &type labels per PPP D139-799-015 CHG005								
110	Pick Kit	0.00							
110									
Packaging	Memo	0.00							
Packaging									
120	QC4- 100% Inspect kits for completeness	0.00							
120									
QC	Memo	0.00							
Quality Control									

*SP

DAS
06
9-89

APR 27 2015

DAS
26
9-89

Mh-1 15-04-22

APR 27 2015

DAS
26
9-89

APR 22 2015

DAS
28
9-89

APR 27 2015

DAS
06
9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width: 100%;"> <tr> <td>Skid-tube ☐</td> <td>Crosstube ☐</td> <td>Water Jet ☐</td> <td>Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>	Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
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Large Fab ☐	Composite ☐	Supplier ☐																

Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge ☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other
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Work Order ID 129829***129829***

Page 2

February-23-15 10:25:22 AM

Item ID: D139-799-015

Accept

N900040100Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: Engine Wash

Start Date: 2/18/15 Start Qty: 1.00 ***1***

Cust Item ID:

Required Date: 3/01/15 Req'd Qty: 1.00 ***1***

Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start ***NR1***

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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130

0.00

130

Packaging

Memo

0.00

Packaging

Identify and pack for shipping as per PPP D139-799-015

Location: _____

PPP rev: _____

Ship

DAS

66

2-88

APR 27 2015

140

QC21- Final Inspection - Work Order Release

0.00

140

QC

Memo

0.00

Quality Control

*MCS 1504-22**MF 15-4-27*

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

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Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge ☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other
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Picklist Print

February-23-15 10:25:18 AM

Page 1

Work Order ID: 129829

129829

Parent Item: D139-799-015

D139-799-015

Parent Item Name: Engine Wash

Start Date: 2/18/15

Required Date: 3/01/15

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP Rev:B 11.07.04 new issue DD verf:JLM IPP REV:B
AS PER ECN 11-598 11-06-05 JLM VERF BY:DD IPP Rev:C 11.09.27
PER CHG003 DD verf:EC IPP Rev:D 13.09.24 PER
CHG005/ECN13-579 DD verf:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
MS21919-WDG9 Clamp		Purchased	No				Each	47.0000		20			DAS 26 9-89
**													
DAS 06 9-89 Location ST297 47 Loc Qty Loc Code m131317 47													
D4121-1 Hose Assy		Manufactured	No			110	Each	10.0000		2			DAS 26 9-89
**													
DAS 06 9-89 Location FG 2 Loc Qty Loc Code 114101 2 ST214 8 129026 8													
D4121-3 Hose Assy		Manufactured	No			110	Each	8.0000	1	1			DAS 26 9-89
**													
DAS 06 9-89 Location FG 1 Loc Qty Loc Code 91535 1 ST214 7 129024 7													

APR 22 2015

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

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Design ☐									
Doc/Data ☐									
Equip/Tooling ☐									
Handling/Pre ☐									
Material ☐									
Operator ☐									
Offset/Setup ☐									
Process ☐									
Supplier ☐									
Training ☐									
Transport ☐									
Unapproved ☐									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge ☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other
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Picklist Print

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Page 2

Work Order ID: 129829

Parent Item: D139-799-015

Parent Item Name: Engine Wash

129829

D139-799-015

Start Date: 2/18/15

Required Date: 3/01/15

Start Qty: 1.00

Required Qty: 1.00

D4121-5 Manufactured No

110 Each

9.0000

1 1
**

DAS
26
9-89

D4121-5

Hose Assy

DAS
28
9-89

DAS
06
9-89

Location

Loc Qty

Loc Code

ST214

9

126545

1

129025

8

D4131-041 Manufactured No

110 Each

4.0000

1 1
**

DAS
26
9-89

D4131-041

Manifold Assy

DAS
28
9-89

DAS
06
9-89

Location

Loc Qty

Loc Code

ST093

4

128064

4

D4131-043 Manufactured No

110 Each

3.0000

1 1
**

DAS
26
9-89

D4131-043

Doubler Assy

DAS
28
9-89

DAS
06
9-89

Location

Loc Qty

Loc Code

ST093

3

128407

3

D4146-1 Manufactured No

110 Each

15.0000

2 2
**

DAS
26
9-89

D4146-1

Fitting

DAS
06
9-89

Location

Loc Qty

Loc Code

ST093

15

128375

2

129027

13

APR 22 2015

DAS
28
9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

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Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge ☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other
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Picklist Print

February-23-15 10:25:20 AM

Page 3

Work Order ID: 129829

129829

Parent Item: D139-799-015

D139-799-015

Parent Item Name: Engine Wash

Start Date: 2/18/15

Required Date: 3/01/15

Start Qty: 1.00

Required Qty: 1.00

D4182-1 Manufactured No

110 Each

10.0000

2 2

DAS
28
9-89

D4182-1

Fitting, Quick Disconnect

DAS
28
9-89

Location

Loc Qty

Loc Code

ST097

10

129023

10

DAS
28
9-89

D4384-1 Manufactured No

110 Each

11.0000

1 1

DAS
26
9-89

D4384-1

Placard

DAS
26
9-89

Location

Loc Qty

Loc Code

FG

5

80679

5

ST103

6

126599

6

DAS
28
9-89

AN526-1032R16 Purchased No

110 Each

72.0000

4 4

DAS
26
9-89

AN526-1032R16

Screw

DAS
26
9-89

Location

Loc Qty

Loc Code

ST326

72

m130928

72

DAS
28
9-89

AN832-6J Purchased No

110 Each

8.0000

2 2

DAS
26
9-89

AN832-6J

Union

DAS
26
9-89

Location

Loc Qty

Loc Code

ST323

8

m131019

8

APR 22 2015

DAS
28
9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

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Doc/Data ☐									
Equip/Tooling ☐									
Handling/Pre ☐									
Material ☐									
Operator ☐									
Offset/Setup ☐									
Process ☐									
Supplier ☐									
Training ☐									
Transport ☐									
Unapproved ☐									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence
		☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge
		☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other

Picklist Print

February-23-15 10:25:21 AM

Page 4

Work Order ID: 129829

129829

Parent Item: D139-799-015

D139-799-015

Parent Item Name: Engine Wash

Start Date: 2/18/15

Required Date: 3/01/15

Start Qty: 1.00

Required Qty: 1.00

AN924-6J

Purchased

No

110

Each

12.0000

4 4

DAS
28
9-89

AN924-6J

NUT

DAS
28
9-89

Location

Loc Qty

Loc Code

FG

2

123245

2

ST322

10

m131320

10

110

Each

95.0000

4 4

DAS
28
9-89

NAS1149C0932R

Purchased

No

NAS1149C0932R

WASHER

DAS
28
9-89

Location

Loc Qty

Loc Code

ST271

95

m131026

95

APR 22 2015

DAS
28
9-89

DAS
28
9-89

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Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐															
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐															
Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐															
Large Fab ☐	Composite ☐	Supplier ☐																

Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence
		☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge
		☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other

5.0 PARTS LIST

Qty -011	Qty -012	Qty -015	Qty -017	Qty -019	Qty -112	Part Number	Description
X						D139-799-011	MAINTENANCE STEP KIT, LH
	X					D139-799-012	MAINTENANCE STEP KIT, RH
		X				D139-799-015	ENGINE WASH KIT
			X			D139-799-017	CARGO FLOOR PROTECTOR KIT
				X		D139-799-019	CABIN FLOOR PROTECTOR KIT
					X	D139-799-112	MAINTENANCE STEP WITH GRAB BAR KIT, RH
			2			D3580-1	JOGGLE BRACKET
			2	8		D3628-1	CUPPED WASHER
1						D4092-041	MAINTENANCE STEP ASSEMBLY
	1					D4092-042	MAINTENANCE STEP ASSEMBLY
		2				D4121-1	HOSE ASSEMBLY
		1				D4121-3	HOSE ASSEMBLY
		1				D4121-5	HOSE ASSEMBLY
				1		D4130-1	FWD CABIN FLOOR PROTECTOR
				1		D4130-3	AFT CABIN FLOOR PROTECTOR
			1			D4130-5	FWD CARGO FLOOR PROTECTOR
			1			D4130-7	CENTER CARGO FLOOR PROTECTOR
			1			D4130-9	AFT CARGO FLOOR PROTECTOR
		1				D4131-041	MANIFOLD ASSEMBLY
		1				D4131-043	DOUBLER ASSEMBLY
		2				D4146-1	FITTING
			1			D4153-1	JOGGLE BRACKET
			1			D4153-3	JOGGLE BRACKET
				4		D4153-5	CLAMP PLATE
			2			D4166-1	PLACARD, MAX LOAD
		2				D4182-1	FITTING, QUICK DISCONNECT
		1				D4384-1	PLACARD
					1	D4526-042	MAINTENANCE STEP ASSEMBLY, RH
2	2				2	AN6H12A	BOLT
2	2				2	AN6H13A	BOLT
		4				AN526-1032R16	SCREW
		2				AN832-6J	UNION
		4				AN924-6J	NUT
		20				MS21919WDG09	CLAMP
6	6				6	NAS1149D0663J	WASHER (or AN960JD616)
		4				NAS1149C0932R	WASHER (or AN960C916L)

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